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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/655,422	09/04/2003	Sandeep Chennakeshu	9314-16	6705
54414 7590 11/28/2007 MYERS BIGEL SIBLEY & SAJOVEC, P.A. P.O. BOX 37428 RALEIGH, NC 27627			EXAMINER MONTOKA, OSCHTA I	
			ART UNIT 2623	PAPER NUMBER
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Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

Office Action Summary	Application No. 10/655,422	Applicant(s) CHENNAKESHU, SANDEEP	
	Examiner Oschta Montoya	Art Unit 2623	

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --

Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

Status

- 1) ☒ Responsive to communication(s) filed on 07 August 2007.
- 2a) ☐ This action is **FINAL**. 2b) ☒ This action is non-final.
- 3) ☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

Disposition of Claims

- 4) ☒ Claim(s) 1-6, 8-14, 16, 17, 19-29 and 37-48 is/are pending in the application.
- 4a) Of the above claim(s) _____ is/are withdrawn from consideration.
- 5) ☐ Claim(s) _____ is/are allowed.
- 6) ☒ Claim(s) 1-6, 8-14, 16-17, 19-29, and 37-48 is/are rejected.
- 7) ☐ Claim(s) _____ is/are objected to.
- 8) ☐ Claim(s) _____ are subject to restriction and/or election requirement.

Application Papers

- 9) ☐ The specification is objected to by the Examiner.
- 10) ☐ The drawing(s) filed on _____ is/are: a) ☐ accepted or b) ☐ objected to by the Examiner.
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).
- 11) ☐ The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

Priority under 35 U.S.C. § 119

- 12) ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
- a) ☐ All b) ☐ Some * c) ☐ None of:
1. ☐ Certified copies of the priority documents have been received.
 2. ☐ Certified copies of the priority documents have been received in Application No. _____.
 3. ☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).

* See the attached detailed Office action for a list of the certified copies not received.

Attachment(s)

- | | |
|--|---|
| 1) <input checked="" type="checkbox"/> Notice of References Cited (PTO-892) | 4) <input type="checkbox"/> Interview Summary (PTO-413)
Paper No(s)/Mail Date. _____ |
| 2) <input type="checkbox"/> Notice of Draftsperson's Patent Drawing Review (PTO-948) | 5) <input type="checkbox"/> Notice of Informal Patent Application |
| 3) <input type="checkbox"/> Information Disclosure Statement(s) (PTO/SB/08)
Paper No(s)/Mail Date _____ | 6) <input type="checkbox"/> Other: _____ |

DETAILED ACTION

Continued Examination Under 37 CFR 1.114

1. A request for continued examination under 37 CFR 1.114, including the fee set forth in 37 CFR 1.17(e), was filed in this application after final rejection. Since this application is eligible for continued examination under 37 CFR 1.114, and the fee set forth in 37 CFR 1.17(e) has been timely paid, the finality of the previous Office action has been withdrawn pursuant to 37 CFR 1.114. Applicant's submission filed on 08/07/2007 has been entered.

Response to Arguments

2. Applicant's arguments with respect to claims have been considered but are moot in view of the new ground(s) of rejection.

In response to applicant's argument (page 15) that Liu teaches away from claims 10, 17, and 25, the examiner respectfully disagrees, just because Liu's reference has a further function, like switching off the power of the handheld device when the information is displayed on the larger monitor. This does not mean that the information cannot be shown concurrently (Para. 10, lines 23-26).

Claim Rejections - 35 USC § 102

3. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless –

(e) the invention was described in (1) an application for patent, published under section 122(b), by another filed in the United States before the invention by the applicant for patent or (2) a patent granted on an application for patent by another filed in the United States before the invention by the applicant for patent, except that an international application filed under the treaty defined in section 351(a) shall have the effects for purposes of this subsection of an application filed in the United States only if the international application designated the United States and was published under Article 21(2) of such treaty in the English language.

4. Claim 10, 17, and 25 are rejected under 35 U.S.C. 102(e) as being anticipated by Liu, US 2003/0169287.

Regarding claim 10, Liu discloses a method of displaying information from a handheld electronic device on a video screen remote from the handheld electronic device, wherein the handheld electronic device includes a local display mounted in a housing of the handheld electronic device and wherein the local display is small relative to the remote video screen (Para. 10, lines 23-26, fig 2B), the method comprising:

receiving information from the handheld electronic device over a wireless coupling (Para. 10, lines 17-19, fig. 1);

responsive to receiving the information from the handheld electronic device, generating a video signal corresponding to the information from the handheld electronic device (Para. 10, lines 23-26);

providing the generated video signal to the video screen for display of the information on the video screen (Para. 10, lines 21-23, fig.1); and

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showing the information on the local display of the handheld electronic device concurrently with showing the information on the remote video screen (Para. 10, lines 23-26).

Regarding claim 17, Liu teaches a method of displaying information from a handheld electronic device on a video screen remote from the handheld electronic device, the method comprising:

generating information within the handheld electronic device wherein the generated information is adapted for display on a local display of the handheld electronic device (Para. 10, lines 23-26); and

transmitting the generated information from the handheld electronic device over a wireless coupling to a receiver for display on the remote video screen (Para. 10, lines 26-31); and

displaying the information on the local display of the handheld electronic device concurrently with transmitting the information from the handheld electronic device over the wireless coupling (Para. 10, lines 23-26).

Regarding claim 25, Liu discloses a handheld electronic device comprising:

a local display mounted on a housing of the display (Figs. 2B and 2C);

a processor coupled to the display wherein the processor is configured to generate information within the handheld electronic device wherein the information is

adapted for display on the local display of the handheld electronic device (Para. 10, lines 23-26);

a transceiver coupled to the processor wherein the transceiver is configured to transmit the generated information from the handheld electronic device over a wireless coupling (Para. 10, lines 17-19) to a receiver for display on a video screen remote from the handheld electronic device (Para. 10, lines 26-31);

wherein the information is shown on the local display of the handheld electronic device concurrently with transmitting the information from the handheld electronic device over the wireless coupling (Para. 10, lines 23-26).

Claim Rejections - 35 USC § 103

5. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negated by the manner in which the invention was made.

6. Claims 1-3, 5-6, 8-9, 12, 37, and 39-40 rejected under 35 U.S.C. 103(a) as being unpatentable over Liu in view of Florence in view of Minett.

Regarding claim 1, Liu discloses a method of displaying information from a handheld electronic device on a video screen remote from the handheld electronic device, the method comprising: receiving information from the handheld electronic device over a wireless coupling (Para. 10, lines 17-19, fig. 1); responsive to receiving the information from the handheld electronic device, generating a video signal

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corresponding to the information from the handheld electronic device (Para. 10, lines 23-26); and providing the generated video signal to the video screen for display of the information on the video screen (Para. 10, lines 21-23, fig.1).

Liu fails to teach that wherein receiving information from the handheld electronic device is preceded by determining if information is being received from the handheld electronic device;

wherein the operations of receiving the information from the handheld electronic device, generating the video signal, and providing the video signal to the video screen are performed responsive to determining that information is being transmitted from the handheld electronic device; and

wherein the method further comprises providing an alternate video to the video screen responsive to determining that information is not being transmitted from the handheld electronic device.

In an analogous art, Florence teaches the use of Bluetooth wireless protocol to transfer data between a handheld device and a receiver (1305-figure 13, Para 66). It is well known in the art that before any data transfer using Bluetooth wireless protocol a determination has to be made as to who is trying to send the data in order to accept the data (see applicant's admitted prior art "Bluetooth technology" document by Erasala and Yen).

Therefore, it would have been obvious to one of ordinary skill in the art to modify Liu's method to include the use of Bluetooth wireless protocol, as taught by Florence. The motivation would have been to provide a suitable wireless communication link.

Liu and Florence do not teach the method further comprises providing an alternate video to the video screen responsive to determining that information is not being transmitted from the handheld electronic device.

In an analogous art, Minett teaches the television set having standard functions, like channel selection where an alternate video can be shown (Col. 3, lines 44-50).

Therefore, it would have been obvious to one of ordinary skill in the art to modify Liu and Florence method to include showing an alternate video, as taught by Minett. The motivation would have been to give the user a video even if there is no connection between the devices.

Claim 3, 12, and 39 are rejected on the same grounds as claim 1.

Regarding claim 2, Liu, Florence, and Minett teach the method according to claim 1 wherein the information from the handheld electronic device comprises at least one selected from the group consisting of an e-mail received by the handheld electronic device, a game screen for a game being played on the handheld electronic device, an internet page received by the handheld electronic device, a photograph, and a video clip (see Liu Para. 10, lines 45-53).

Regarding claim 5, Liu, Florence, and Minett teach the method according to claim 1 wherein the handheld electronic device comprises a radiotelephone (see Liu Para. 10, lines 42-43, fig 2C).

Regarding claim 6, Liu, Florence, and Minett teach the method according to claim 1 wherein the handheld electronic device comprises a personal digital assistant (see Liu Para. 10, lines 39-40, fig.2B).

Regarding claim 8, Liu, Florence, and Minett teach the method according to claim 1 wherein the video screen comprises a television (see Liu Para. 12, lines 1-3).

Regarding claim 9, Liu, Florence, and Minett teach the method according to claim 1 wherein the handheld electronic device includes a local display mounted in a housing of the handheld electronic device and wherein the local display is small relative to the remote video screen (see Liu Para. 10, lines 23-26, fig 2B).

Regarding claim 37, Liu, Florence, and Minett teach the method according to claim 1 wherein the information is configured for display on a local display of the handheld electronic device (see Liu Para. 10, lines 7-8).

Regarding claim 40, Liu, Florence, and Minett disclose the method according to Claim 9 further comprising showing the information on the local display of the handheld electronic device concurrently with showing the information on the remote video screen (see Liu Para. 10, lines 23-26).

7. Claims 4 is rejected under 35 U.S.C. 103(a) as being unpatentable over Liu, Florence, and Minett as applied to claim 1 above, and further in view of Allport, US 6,097,441.

Regarding claim 4, Liu, Florence, and Minett disclose the method according to claim 1.

Liu, Florence, and Minett fail to teach that wherein the video signal further comprises at least one selected from the group consisting of a horizontal line sync pulse, a color reference burst, a reference black level, picture luminance information, color saturation information, color hue information, and a vertical sync pulse.

In an analogous art, Allport teaches a video signal having attribute adjustment features (Col. 4, lines 1-5).

Therefore, it would have been obvious to one of ordinary skill in the art to modify Liu, Florence, and Minett's method to include attribute adjustment, as taught by Allport. The motivation would have been to give the user a better video quality.

8. Claim 11 and 14 are rejected under 35 U.S.C. 103(a) as being unpatentable over Liu in view of Minett.

Regarding claim 11, a video signal generator comprising: a receiver configured to receive information from a handheld electronic device over a wireless coupling (Para. 10, lines 17-19, fig. 1); a processor configured to generate a video signal corresponding to the information from the handheld electronic device responsive to receiving the information from the handheld electronic device (Para. 10, lines 23-26); and a video

output configured to provide the video signal to a video screen for display on the video screen (Para. 10, lines 21-23, fig. 1).

Liu fails to teach the video output is further configured to provide an alternate video signal to the video screen if information is not being received from the handheld electronic device.

In an analogous art, Minett teaches the television set has standard functions, like channel selection where an alternate video can be shown (Col. 3, lines 44-50).

Therefore, it would have been obvious to one of ordinary skill in the art to modify Liu's signal generator to include providing an alternate video, as taught by Minett. The motivation would have been to give the user a video even if there is no connection between the devices.

Regarding claim 14, Liu and Minett teach the video signal generator according to claim 11 wherein the handheld electronic device comprises at least one of a radiotelephone and a personal digital assistant (see Liu Para. 10, lines 39-43, figs. 2B and 2C).

9. Claim 13 is rejected under 35 U.S.C. 103(a) as being unpatentable over Liu in view of Minett as applied to claim 11 above, and further in view of Allport.

Regarding claim 13, Liu and Minett disclose the method according to claim 11.

Liu and Minett fail to teach that wherein the video signal further comprises at least one selected from the group consisting of a horizontal line sync pulse, a color reference burst, a reference black level, picture luminance information, color saturation information, color hue information, and a vertical sync pulse.

In an analogous art, Allport teaches a video signal having attribute adjustment features (Col. 4, lines 1-5).

Therefore, it would have been obvious to one of ordinary skill in the art to modify Liu and Minett's method to include attribute adjustment, as taught by Allport. The motivation would have been to give the user a better video quality.

10. Claims 16, 19-24, and 26-29 are rejected under 35 U.S.C. 103(a) as being unpatentable over Liu in view of Florence.

Regarding claim 16, Liu teaches a method of displaying information from a handheld electronic device on a video screen coupled to a receiver remote from the handheld electronic device, the method comprising:

generating information within the handheld electronic device wherein the generated information is adapted for display on a local display of the handheld electronic device (Para. 10, lines 23-26); and

transmitting the generated information from the handheld electronic device over a wireless coupling to the receiver for display on the remote video screen (Para. 10, lines 26-31).

Liu fails to teach determining at the handheld electronic device that the receiver is within a transmission range of the handheld electronic device;

responsive to a determination that the receiver is within range transmitting the generated information; and

displaying the information on the display of the handheld electronic device responsive to a determination that no receiver is within range of the handheld electronic device.

In an analogous art, Florence teaches the use of Bluetooth wireless protocol to transfer data between a handheld device and a receiver (1305-figure 13, Para 66). It is well known in the art that before any data transfer using Bluetooth wireless protocol a determination has to be made as to whether or not the devices are within range (see applicant's admitted prior art "Bluetooth technology" document by Erasala and Yen).

Therefore, it would have been obvious to one of ordinary skill in the art to modify Liu's method to include the use of Bluetooth wireless protocol, as taught by Florence. The motivation would have been to provide a suitable wireless communication link.

Claim 20 and 27 are rejected on the same grounds as claim 16.

Regarding claim 19, Liu and Florence teach the method according to claim 16 wherein the information from the handheld electronic device comprises at least one selected from the group consisting of an e-mail received by the handheld electronic device, a game screen for a game being played on the handheld electronic device, an

interned page received by the handheld electronic device, a photograph, and a video clip (see Liu Para. 10, lines 45-53).

Regarding claim 21, Liu and Florence teach the method according to claim 16 wherein the handheld electronic device comprises at least one selected from the group consisting of a radiotelephone and a personal digital assistant (see Liu Para. 10, lines 39-43, figs. 2B and 2C).

Regarding claim 22, Liu and Florence teach the method according to claim 16 wherein the video screen comprises a television (see Liu Para. 12, lines 1-3).

Regarding claim 23, Liu and Florence teach the method according to claim 16 wherein the display of the handheld electronic device is small relative to the video screen (see Liu Para. 10, lines 23-26).

Regarding claim 24, Liu teaches a handheld electronic device comprising:
a local display mounted on a housing of the display (Figs. 2B and 2C);
a processor coupled to the display wherein the processor is configured to generate information within the handheld electronic device wherein the information is adapted for display on the local display of the handheld electronic device (Para. 10, lines 23-26);

a transceiver coupled to the processor wherein the transceiver is configured to transmit the generated information from the handheld electronic device over a wireless coupling (Para. 10, lines 17-19) to a remote receiver for display on a video screen remote from the handheld electronic device (Para. 10, lines 26-31); and to display the information on the local display responsive to a determination that a receiver of a video screen is not within transmission range (Col. 10, lines 23-26).

Liu fails to teach wherein the processor is further configured to determine whether the remote receiver of the video screen is within a transmission range of the handheld electronic device, to initiate transmitting the generated information from the transceiver over the wireless coupling to a receiver for display on the remote video screen responsive to a determination that a receiver of a video screen is within transmission range.

In an analogous art, Florence teaches the use of Bluetooth wireless protocol to transfer data between a handheld device and a receiver (1305-figure 13, Para 66). It is well known in the art that before any data transfer using Bluetooth wireless protocol a determination has to be made as to whether or not the devices are within range (see applicant's admitted prior art "Bluetooth technology" document by Erasala and Yen).

Therefore, it would have been obvious to one of ordinary skill in the art to modify Liu's method to include the use of Bluetooth wireless protocol, as taught by Florence. The motivation would have been to provide a suitable wireless communication link.

Regarding claim 26, Liu and Florence teach the handheld electronic device according to claim 24 wherein the processor displays the information on the local display of the handheld electronic device when no receiver is within range of the handheld electronic device (see Liu Para. 10, lines 7-8, Fig. 2B).

Regarding claim 28, Liu and Florence teach the handheld electronic device according to claim 24 wherein the handheld electronic device comprises at least one selected from the group consisting of a radiotelephone and a personal digital assistant (see Liu Para. 10, lines 39-43, figs. 2B and 2C).

Regarding claim 29, Liu and Florence teach the handheld electronic device according to claim 24 wherein the local display of the handheld electronic device is small relative to the video screen (see Liu Para.10, lines 23-26).

11. Claim 38 is rejected under 35 U.S.C. 103(a) as being unpatentable over Liu in view of Florence in view of Minett as applied to claim 1 above, and further in view of Magnuson et al., US 6,504,480.

Regarding claim 38, Liu, Florence , and Minett disclose the method according to Claim 1.

Liu, Florence, and Minett fail to teach generating a beacon allowing the handheld electronic device to determine if it is within range.

In an analogous art, Magnuson teaches the use of beacons to determine if a device is within range (Col. 4, lines 55-65).

Therefore, it would have been obvious to one of ordinary skill in the art to modify the teachings of Liu, Florence, and Minett to include the use of beacons to determine if a device is within range, as taught by Magnuson. The motivation would have been to provide an alternative to determine if the device is within range.

12. Claim 41 is rejected under 35 U.S.C. 103(a) as being unpatentable over Liu in view of Minett as applied to claim 11 above, and further in view of Magnuson.

Regarding claim 41, Liu and Minett disclose the video signal generator according to Claim 11.

Liu and Minett fail to teach a transceiver configured to provide a beacon allowing the handheld electronic device to determine if it is within range.

In an analogous art, Magnuson teaches the use of beacons to determine if a device is within range (Col. 4, lines 55-65).

Therefore, it would have been obvious to one of ordinary skill in the art to modify the teachings of Liu and Minett to include the use of beacons to determine if a device is within range, as taught by Magnuson. The motivation would have been to provide an alternative to determine if the device is within range.

13. Claim 42 is rejected under 35 U.S.C. 103(a) as being unpatentable over Liu in view of Minett as applied to claim 11 above, and further in view of Florence.

Regarding claim 42, Liu and Minett disclose the video signal generator according to Claim 11. Minett further teaches providing an alternate video signal to the video screen responsive to determining that information is not being received from the handheld electronic device (Col. 3, lines 44-50).

Liu and Minett fail to teach the processor is configured to determine if information is being received from the handheld electronic device, wherein the video output is configured to automatically provide the video signal to the video screen for display on the video screen responsive to determining that information is being received from the handheld electronic device.

In an analogous art, Florence teaches the use of Bluetooth wireless protocol to transfer data between a handheld device and a receiver (1305-figure 13, Para 66). It is well known in the art that before any data transfer using Bluetooth wireless protocol a determination has to be made as to who is trying to send the data in order to accept the data and this connection can be done automatically (see applicant's admitted prior art "Bluetooth technology" document by Erasala and Yen).

Therefore, it would have been obvious to one of ordinary skill in the art to modify Liu's method to include the use of Bluetooth wireless protocol, as taught by Florence. The motivation would have been to provide a suitable wireless communication link.

14. Claim 43-48 are rejected under 35 U.S.C. 103(a) as being unpatentable over Liu in view of Florence as applied to claim 16 above, and further in view of Magnuson et al.

Regarding claim 43, Liu and Florence disclose the method according to Claim 16.

Liu and Florence fail to teach the use of a beacon to determine if a device is within range.

In an analogous art, Magnuson teaches the use of beacons to determine if a device is within range (Col. 4, lines 55-65).

Therefore, it would have been obvious to one of ordinary skill in the art to modify the teachings of Liu and Florence to include the use of beacons to determine if a device is within range, as taught by Magnuson. The motivation would have been to provide an alternative to determine if the device is within range.

Claim 46 is rejected on the same grounds as claim 43.

Regarding claim 44, Liu, Florence and Magnuson disclose the method according to Claim 43 wherein transmitting the generated information comprises automatically transmitting the generated information from the handheld electronic device over the wireless coupling to the receiver responsive to a determination that the receiver is within range and automatically blocking transmission of the generated information from the handheld electronic device over the wireless coupling to the receiver responsive to a determination that no receiver is within range of the handheld electronic device (see Florence 1305-figure 13, Para 66). It is well known in the art that before any data transfer using Bluetooth wireless protocol a determination has to be made as to who is

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trying to send the data in order to accept the data and this connection can be done automatically also if no receiver is within range no connection can be established (see applicant's admitted prior art "Bluetooth technology" document by Erasala and Yen).

Claim 47 is rejected on the same grounds as claim 44.

Regarding claim 45, Liu, Florence, and Magnuson disclose the method according to Claim 43 displaying concurrently with transmitting the information from the handheld electronic device over the wireless coupling (see Liu Para. 10, lines 23-26).

Claim 48 is rejected on the same grounds as claim 45.

Contact


Any inquiry concerning this communication or earlier communications from the examiner should be directed to Oshta Montoya whose telephone number is (571) 270-1192. The examiner can normally be reached on Monday/Friday 7:30 to 5:00 off every other Friday.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Christopher Grant can be reached on (571) 272-7294. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

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Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

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